

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated February 4, 2008 has been received and its contents carefully reviewed.

By this Response, claims 28, 40 and 50 have been amended and claims 1-7, 9-21, 23-27, 32, 37, 39, 44, 49, 53 and 59 have been canceled without prejudice or disclaimer. Accordingly, 28-31, 34-36, 38, 40-43, 46-48, 50-52, 54 and 56-58 are currently pending. Reexamination and reconsideration of the pending claims are respectfully requested.

Claims 1-6, 13-20, 28, 29, 40, 41, 49 are rejected under 35 USC 103(a) as being over US Patent No. 5,847,690 (“**Boie et al**”, hereinafter “**Boie**”) in view of PCT application WO01297529 (hereinafter, “**David**”). Claims 37, 49 and 59 are rejected under 35 USC 103(a) as being unpatentable over “**Boie**” in view of “**David**” and further in view of US Patent No. 5,162,782 (“**Yoshioka**”, hereinafter “**Yoshioka**”) and in further view of US Patent No. 6,473,235 (“**Toyoshima et al**”, “**Toyoshima**”). Claims 38 and 52 are rejected under 35 USC 103(a) as being unpatentable over “**Boie**” in view of “**David**” and further in view of “**Yoshioka**” and in further view of US Patent No. 6,630,274 (“**Kiguchi et al**”, hereinafter “**Kiguchi**”). Claims 39 and 53 are rejected under 35 USC 103(a) as being unpatentable over “**Boie**” in view of “**David**” and further in view of “**Yoshioka**” and in further view of US Patent No. 6,284,436 (“**Ahn et al**”, hereinafter “**Ahn**”). The rejections are respectfully traversed and reconsideration is requested.

Claim 28 is allowable over the cited references in that claim 28 recites a combination of elements including, for example, "an EM sensor including first and second coil arrays formed of a transparent electrode on the second substrate, wherein each of the first and second coil arrays include a plurality of coils and each of the plurality of coils has first and second open ends and wherein the first coil array is perpendicular to the second coil array."

Firstly, on lines 1~10 on the page 3 of the Office Action, the examiner asserts that the capacitive touch sensor Fig. 3B(30) of Boie has first and second coil arrays formed of a transparent electrode.

However, Fig. 3B (30) of Boie, explicitly or inherently, shows neither 'coil array' nor the feature of 'wherein the first coil array is perpendicular to the second coil array' recited in amended claim 28. Further, the capacitive touch sensor in Boie does not anticipate 'EM (Electro-Magnetic) sensor' due to difference of driving touch sensor.

On lines 14~16 on the page 3 of the Office Action, the examiner indicates that David teaches a magnetic screen (21) in combination with a sensor PCB (13) wherein first and second coils 101 and 103 have two separate open ends connected to the MUX (not shown). Referring to Fig. 2 of David, the sensor (21) is below the PCB (13) and separated from the LCD (3). This means that David does not show the feature of "an EM sensor including first and second coil arrays formed of a transparent electrode on the second substrate, wherein each of the first and second coil arrays include a plurality of coils and each of the plurality of coils has first and second open ends and wherein the first coil array is perpendicular to the second coil array" recited in amend claims 28. Therefore, David does not cure the deficiency of Boie.

The other cited references including Yoshioka, Toyoshima and Kiguchi and Ahn do not cure the deficiency. Thus, none of the cited references, singly or in combination, teaches or suggests at least the recited features of the claimed invention. Accordingly, Applicants respectfully submit that claim 28 and claims 29-31, 34-36, and 38, which depend therefrom, are allowable over the cited references.

Claim 40 is allowable over the cited references in that claim 40 recites a combination of elements including, for example, " an EM sensor including first and second coil arrays formed of a transparent electrode on the color filter layer and wherein the first coil array is perpendicular to the second coil array; an overcoat layer on the EM sensor, wherein each of the first and second coil arrays include a plurality of coils, and each of the plurality of coils has first and second open ends." For similar reasons as discussed with respect to claim 28, none of the cited references, singly or in combination, teaches or suggests at least these features of the claimed invention. Accordingly, Applicants respectfully submit that claim 40 and claims 41-43 and 46-48, which depend therefrom, are allowable over the cited references.

Claim 50 is allowable over the cited references in that claim 50 recites a combination of elements including, for example, "an EM sensor including first and second coil arrays formed of a transparent electrode on the insulating layer, wherein each of the first and second coil arrays include a plurality of coils, and each of the plurality of coils has first and second open ends and

wherein the first coil array is perpendicular to the second coil array" For similar reasons as discussed with respect to claim 28, none of the cited references, singly or in combination, teaches or suggests at least these features of the claimed invention. Accordingly, Applicants respectfully submit that claim 50 and claims 51-52, 54 and 56-58, which depend therefrom, are allowable over the cited references.

Applicants believe the application is in condition for allowance and early, favorable action is respectfully solicited. If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

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Respectfully submitted,

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